



ATTORNEY'S DOCKET: 004578.1123

COP  
PATENT NO: US 6,803,534 B1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee:

Shea Chen, et al.

U.S. Patent No.:

US 6,803,534 B1

Issued:

October 12, 2004

Serial No.:

09/866,205

Filed:

May 25, 2001

Group No.:

2833

Examiner:

Renee Luebke

Confirmation No.:

4344

Title:

MEMBRANE FOR MICRO-ELECTRO-MECHANICAL  
SWITCH, AND METHODS OF MAKING AND USING IT

**Certificate  
FEB 28 2006  
of Correction**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**REQUEST FOR CERTIFICATE OF CORRECTION**  
**UNDER 37 CFR § 1.322**

It is respectfully requested that a Certificate of Correction be issued in accordance with the enclosed Form PTO-1050. The error involved is believed to be a Patent Office error, and it is believed that no fee is due in association with this request for a Certificate of Correction. However, the Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

It is respectfully submitted that a significant error is present in the printed patent, that correction thereof in accordance with the enclosed Form PTO-1050 is required in order that no misunderstanding will occur.

Respectfully submitted,  
BAKER BOTTS L.L.P.  
Attorneys for Applicants

Bradley P. Williams  
Reg. No. 40,227

Date: 2/20/06  
Customer No. 45507

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Patent No.: US 6,803,534 B1  
Dated: October 12, 2004  
Inventor(s): Shea Chen, et al.

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, at Abstract

Delete "A micro-electro-mechanical (MEMS) switch (10, 110) has an electrode (22, 122) covered by a dielectric layer (23, 123), and has a flexible conductive membrane (31, 131) which moves between positions spaced from and engaging the dielectric layer. At least one of the membrane and dielectric layer has a textured surface (138) that engages the other thereof in the actuated position. The textured surface reduces the area of physical contact through which electric charge from the membrane can tunnel into and become trapped within the dielectric layer. This reduces the amount of trapped charge that could act to latch the membrane in its actuated position, which in turn effects a significant increase in the operational lifetime of the switch" and insert

-- A micro-electro-mechanical switch (10, 110, 210) is known as a MEMS, and includes a base section (13, 14, 17-18) having two spaced conductive posts (17, 18). A conductive part (22) is provided between the posts, and is covered by a dielectric layer (23). A membrane (31, 131, 231) extends between the posts and has spaced expansion sections (41-42, 141-142, 241-242) which facilitate lengthwise expansion of the membrane as it flexes between positions in which a central portion thereof is respectively spaced from and engaging the dielectric layer. A method of making the switch includes providing a spacer material (76, 176, 177, 178) with a top surface having grooves or ridges that correspond to the expansion sections, depositing the membrane over the top surface of the spacer, and then removing the spacer material.--.

**Mailing Address of Sender:**  
Baker Botts L.L.P.  
2001 Ross Avenue, Suite 600  
Dallas, Texas 75201-2980

**Patent No.** US 6,803,534 B1

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Patent No.: US 6,803,534 B1  
Dated: October 12, 2004  
Inventor(s): Shea Chen, et al.

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1

Line 1, insert -- **TECHNICAL FIELD OF THE INVENTION**

**This invention relates in general to switches and, more particularly, to micro-electro-mechanical switches having flexible capacitive membranes.--**

**Mailing Address of Sender:**  
Baker Botts L.L.P.  
2001 Ross Avenue, Suite 600  
Dallas, Texas 75201-2980

**Patent No. US 6,803,534 B1**